

site 2

site 1

S3: add target references to gene files.

S4: obtain MSA using MAFFT.

S5: remove the target references.

S6: remove the sites with over 50% gaps (default) using Trimal.

S7: remove hypervariable sites using sliding window method.

S8: identify putative paralogs using shared heterozygosity in over 50% taxa.

**Paralogs Detection**